

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 2135(a)-04
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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Water Batching Measuring Element
Load Cell Electronic
Model: JL-WC-WSM
Capacity: Up to 500 gallon
e_{min}: 0.5 gallon

Submitted by:

Jonel Engineering
(dba) Robertson's Ready Mix
500 E. Walnut Ave.
Fullerton, CA 92832
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Contact: Stephen Lawson

Standard Features and Options

Primary weight indications and motion detection are provided by an approved batch controller

Hopper construction: Mild steel

Load cell: (1) Artech, Model 20210-3K (Certificate of Conformance Number 87-057A3)

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: April 19, 2004



Mike Cleary, Director

**Jonel Engineering
(dba) Robertson's Ready Mix
Water Batching Measuring Element
Models: JL-WC-WSM**

Application: Water hopper measuring element when used with approved batch controllers that have weight-to-gallon conversion capability.

Identification: An identification label containing all required information is attached to the side of the measuring element (hopper).

Sealing: The system does not require sealing and therefore has no provision for sealing. The metrological integrity of the device is maintained by the approved batch controller's method of sealing.

Test Conditions: The Model JL-WC-WSM water batching measuring element was submitted for evaluation interfaced with a Jonel Model, Advantage batch controller (Certificate of Approval Number 4257-96). The emphasis of the evaluation was on device design, marking requirements, and performance of the measuring element. Several measurements were taken gravimetrically using a container on top of a 5 000 lb capacity platform scale (tested earlier with known test weights) from 50 to 300 gallons. Water temperature variations were taken into account. The water to weight conversion of 8.34 lb/gallon (at 59 °F) for the initial test and 8.33 lb/gallon (at 64 °F) for the follow up test were used. The device was placed into service and after approximately 30 days and a minimum of 300 normal use measurements the device was retested using the same method mentioned above.

Results of the evaluation indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2004 Edition

Tested By: Gary Castro (CA)